

Q 1

Structure of a Crystal is changed due to

A

Cooling

B

Heating

C

Impurity

D

None of these

[← Previous Question](#)

[Next Question →](#)

Q 2

The specific site at which substrate is attached on the enzyme and converted into product is called as___?

A

Reaction site

B

Active site

C

Binding site

D

None of these

1

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 3 Which of the following test distinguish between 2-butanol and 1-butanol?

A Baeyer's test

B Lucas Test

C Benedict's test

D 2,4-DNPH test

2

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 4 Which of the following is correct general formula of aliphatic carboxylic acid ?

A RCOOH

B ArCOOH

C PhCOOH

D None of these

3

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 5

Nyholm & Gillespie explains the shapes of molecules for

A

transition elements

B

non transition elements

C

only alkali metals

D

Alkaline earth metals

4

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 6

S_N1 reaction is a _____?

A

Multistep reaction

B

Two step reaction

C

Concerted reaction

D

3 step reaction

5

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 7 The conversion of Nitrogen to ammonia or nitrogenous compounds is called

A Nitrification

B Nitrogen Fixation

C Denitrification

D Assimilation

6

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 8

The word Alkali means

A

Base

B

Basic salt

C

Ashes

D

Spirit

7

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 9

Limiting reactant controls the amount of _

A

reactant

B

products

C

both A & B

D

none of these

8

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 10

Which of the following forces have no relation with valence electrons?

A

Ionic Bond

B

Chemical bond

C

Intermolecular forces

D

Intramolecular forces

9

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 11

Molecules of ____ can collide among themselves and exchange energy

A

solids

B

liquids

C

gases

D

both B & C

10

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 12

Which of the following suffix is used for the common naming of alkene?

A

-ene

B

-ylene

C

-yne

D

-eylene

11

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 13

As reaction starts instantaneous rate is

A

Higher than Average rate

B

Lower Than average rate

C

equal to average rate

D

None of these

12

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 14

Rate = $k [\text{NO}][\text{O}_3]$, the order of this reaction is

A

2

B

0

C

1

D

3

13

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 15

Dalton's atomic theory couldn't explain the concept about

A

isomers

B

protons

C

isotopes

D

nucleus

14

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 16

Water is considered as a Universal solvent because of which properties?

A

Polar nature of water

B

H-bonding

C

Electronegativity difference

D

All are correct

15

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 17

A chemical reaction has reached a state of dynamic equilibrium at certain temperature, Which of the statement is incorrect

A Concentration of the reactants remains constant

B Products are continuously being formed

C The rate of forward and backward reactions are same

D The reaction has stopped completely

16

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 18

During S_N1 mechanism, nucleophile can attack on the halogen carbon?

A

From opposite side of leaving group

B

From front of leaving group

C

From both sides

D

None of these

17

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 19 In chemical combination of H-atom with sodium. It gains an electron but in case of HF, H-atom

A gains 2 e-

B lose 1e-

C lose 2e-

D gain 2e-

18

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 20

Evaporation is reverse of _____?

A

Sublimation

B

Freezing

C

Melting

D

Condensation

19

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 21

Which of the following catalyst is used in Friedel craft reaction?

A

 ZnCl_2

B

 KMnO_4

C

 AlCl_3

D

 V_2O_5

20

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 22 Nucleoprotein are _____ proteins which transfer heredity information from one generation to other.

A Transport proteins

B Structural proteins

C Genetic proteins

D Regulatory proteins

21

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 23

S_N1 reactions are favored by which of the following reactions?

A

Water

B

Benzene

C

Carbon Tetrachloride

D

Carbon disulphide

22

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 24

In a reaction having both alkyl halide and base, the base will attack on_____?

A

Electrophilic carbon

B

Nucleophilic carbon

C

beta-hydrogen

D

None of these

23

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 25

Greater the mass of gas taken, greater will be slope of straight line. Because greater the _____ greater will be volume occupied

A

pressure

B

temperature

C

number of moles

D

all of these

24

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 26

Alkanes mostly give_____?

A

Addition reactions

B

Elimination reactions

C

Reduction reactions

D

Substitution reactions

25

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 27

The formation of negative ion is a/an ____ process

A

exothermic

B

endothermic

C

both A & B

D

none of these

26

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 28

What is the emf of Zn-Cu cell ?

A

1.01V

B

1.23V

C

1.1V

D

1.44V

27

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 29

The value of Principal quantum number "n" represent

A

energy of electron

B

location of electron

C

shells or energy levels

D

all of these

28

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 30

Heat of combustion is always a_____?

A

Exothermic reaction

B

Endothermic reaction

C

Spontaneous reaction

D

nonspontaneous reaction

29

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 31

First Law of thermodynamics is

A

$$\Delta E = \Delta H$$

B

$$\Delta E = q + p$$

C

$$\Delta E = q + w$$

D

$$\Delta E = -P\Delta V$$

30

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 32

More energy to remove an electron from_____?

A

Half filled subshell

B

Completely Filled Subshell

C

Partially filled subshell

D

Both a and b

31

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 33

Molecular Solids are held together by weak intermolecular forces called

A

Van der Waal forces

B

Dipole Dipole Interaction

C

Both A and B

D

Electrostatic Forces

32

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 34

The ionic radius is always _____ than the atomic radius from which it is derived

A

higher

B

larger

C

moderate

D

smaller

33

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 35 80% of the coal is used in_____?

A lime kiln

B Domestic purposes

C Fuel

D Motor bikes

34

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 36

Which of the following is produced by heating of bones?

A

Gelatine

B

Cheese

C

Albumin

D

Gelly

35

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 37

The reactions of carboxylic acids which involve H atom removal of OH group form _____ as major products in all reactions?

A

Esters

B

Nitriles

C

Ketones

D

Salts

36

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 38

Which forces makes the liquefaction of He possible?

A

London Dispersion forces

B

Debye forces

C

Dipole-dipole force

D

H-bonding

37

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 39

What does thermodynamics means?

A

Study of change in state of the system

B

Study of energy changes during a process

C

Study of material content of a system

D

All of these

38

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 40

A structural formula shows_____?

A

Arrangement of atoms in the compound

B

Arrangement of electrons in the compound

C

Arrangement of Orbitals that involved in bonding

D

Lewis structure of compounds

39

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 41

Hydrolysis of Tertiary Butyl bromide is a

A

First order reaction

B

Zero Order Reaction

C

Pseudo Second Order

D

Pseudo First Order

40

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 42

When acetylene react with ammoniacal solution cuprous chloride which color of acetylide is formed ?

A

White

B

Red

C

Brown

D

Pink

41

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 43

Lactoglobulin a simple protein is found in muscles as well as in _____ too.

A

Fish

B

Liver

C

Brain

D

Plants

42

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 44

The molecule of water has structure

A

cubic

B

tetrahedral

C

trigonal

D

hexagonal system

43

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 45

Fruity smell of organic compounds is because of _____?

A

Alcohols

B

Carboxylic acid

C

Ester

D

Acidhalids

44

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 46

Fractions of Crude petroleum can be obtained by using_____?

A

Destructive distillation

B

Fractional distillation

C

Vacuum distillation

D

Distillation

45

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 47

What is the correct relation between ΔH and intermolecular forces ?

A

Higher ΔH weaker intermolecular forces

B

Higher ΔH , higher intermolecular forces

C

Lower ΔH , higher intermolecular forces

D

None of these

46

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 48

Carbon is

A

trivalent

B

Tetravalent

C

Monovalent

D

Pentavalent

47

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 49

18g of water contains _____atoms of hydrogen

A

 6.022×10^{23}

B

 $3 \times 6.022 \times 10^{23}$

C

 $2 \times 6.022 \times 10^{23}$

D

 $4 \times 6.22 \times 10^{23}$

48

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 50

In which of the following benzene is isolated?

A

Naphthalene

B

Diphenyl ethane

C

Phenanthrene

D

Anthracene

49

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 51

Heat is the energy that flows across the

A

Surroundings

B

Boundaries of the system

C

only within the system

D

All of these

50

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 52

Ammonia can form only one H-bond because of presence of

A

3 free electron

B

one lone pair of electron

C

5 electron in outer shell

D

none of these

51

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 53 Which one of the following alkali metals forms only normal oxide when it reacts with O_2 ?

A Lithium

B Sodium

C Potassium

D Rubidium

52

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 54

Which of the following is an example of Tertiary alcohols?

A

2 methyl-3-ethylpentane

B

3-ethyl-3-hexanol

C

2-methyl-4-hexanol

D

isopropyl alcohol

53

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 55

Drawing a graph between concentration change with time gives a

A

Straight line

B

parabola

C

Curve

D

Scattered graph

54

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 56 Number of Electrons added on both sides of oxidation and reduction half reactions are balanced

- A At the start of procedure
- B Somewhere in the middle of balancing
- C After Adding two Half reactions
- D Before Adding two Half Reactions

55

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 57

Which of the following statement is incorrect regarding germ theory of diseases postulated by Robert Koch?

A A specific organism can always be found in association with a given disease

B The organism can be isolated and grown in pure culture in the laboratories

C It is possible to recover the organism in pure culture from the experimentally infected animals.

D The pure culture cannot produce the disease when inoculated into susceptible animal

56

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 58

Outbreeding increases which of the following?

A

homozygosity

B

heterozygosity

C

gene linkage

D

gene pool

57

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 59

What are Autophagosomes?

- A Those lysosomes which eat parts of their own cells to generate energy.
- B Those lysosomes which eat old and worn out cellular organelles.
- C Lysosomes which help in extracellular digestion
- D both a and b

58

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 60

Breathing rate in humans at rest is:

A

10 to 15 times per minute

B

10 to 20 times per minute

C

80 to 120 times per minute

D

15 to 20 times per minute

59

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 61

Which one of the following surrounds the testicles?

A

Penis

B

Urethra

C

sperm duct

D

scrotum

60

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 62

The non substrate molecules that binds to the allosteric sites are called?

A

inhibitors

B

reactants

C

allosteric substrates

D

allosteric modulators

61

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 63

What percentage of glucose is normally found in human blood?

A

0.008

B

0.0008

C

0.018

D

0.08

62

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 64

Synaptic vesicles discharge which hormone at the neuromuscular junction?

A

acetylcholine

B

adrenaline

C

estradiol

D

testosterone

63

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 65

The random change in allele frequencies is known as?

A

genetic drift

B

diversity

C

linkage

D

all of these

64

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 66

Coelom is lined by which of the following?

A

Parietal mesoderm

B

Visceral mesoderm

C

Mesoderm

D

both a and b

65

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 67

In bacteria name the colour of light which is responsible for photosynthesis?

A

Ultra-Violet

B

Blue

C

Red

D

None of the above

66

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 68

Who came up with the term "cell"?

A

Schwann

B

Schleiden

C

Robert Hooke

D

both a and b

67

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 69

Gene is the molecular unit of which of the following?

A

DNA

B

RNA

C

heredity

D

genotype

68

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 70

The phage that is involved in the lysogenic cycle of a bacteriophage is known as?

A

Lytic Phage

B

Lysogenic phage

C

Prophage

D

Bacteriophage

69

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 71

Urethra and vagina have ----openings to the exterior:

A

common

B

independent

C

Both A and B

D

None of these

70

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 72

All of the following are coelomates except which?

A

Deuterostomes

B

Hemichordates

C

Proterosomes

D

Aschelminthes

71

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 73

Germ theory of diseases was formulated by

A

Louis Pasteur

B

Robert Koch

C

Christain Gram

D

None of above

72

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 74

What type of viruses are the HBV virus?

A

DNA Enveloped virus

B

RNA enveloped virus

C

DNA Virus

D

RNA naked virus

73

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 75

Which scientists gave postulate that giraffes have long necks because they wanted to eat the leaves of tall trees?

A

Watson and Crick

B

Lamark

C

Darwin

D

All of these

74

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 76

Which of the following can not be used to mediate the fusion of plasma membranes of two different cells?

A

electric shock

B

inactivated viruses

C

polyethylene glycol

D

emulsifier

75

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 77 The contraction of muscle by actin and myosin is described by which biological theory?

A Endosymbiotic theory

B Central Dogma theory

C Cross-bridge theory

D Sliding filament theory

76

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 78

Vitamin which doesn't act as a coenzyme is?

A

vitamin c

B

vitamin b

C

vitamin b1

D

vitamin b2

77

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 79

In the human body, the group formed by neurons enclosed in the membrane at certain body parts is called?

A

benign

B

malign

C

ganglion

D

neuroglial

78

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 80

The difference in photosynthesis spectrum and actin spectrum occurs due to?

A

Carbon dioxide

B

oxygen

C

carotenoids

D

wavelength

79

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 81

What is the definition of "fitness" in terms of evolution?

A

The organism's ability to attain resources while in competition with other organisms of its species

B

The organism's ability to attract the most mates

C

The organism's health

D

The ability of an organism to contribute its genes to future generations

80

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 82

E.coli is an example of which type of bacteria?

A

anaerobic

B

facultative

C

aerobic

D

both a and b

81

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 83

In the chest wall, the rib muscles are considered as

A

intercostal muscles

B

Pulmonary muscles

C

Both and A and B

D

Coastal muscles

82

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 84

The smallest monosaccharide is

A

triose

B

diose

C

monose

D

none of these

83

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 85

The genes which do not follow law of independent assortment?

A

Recessive genes

B

Dominant genes

C

crossed genes

D

linked genes

84

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 86

The sperm duct opens into which of the following?

A

ureter

B

urethra

C

testes

D

all of these

85

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 87

The epiglottis, a flap of tissues covers the

A

pharynx

B

larynx

C

glottis

D

nasal cavity

86

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 88 A complex cartilaginous structure surrounding the upper end of the trachea is called:

A glottis

B voice box

C epiglottis

D vocal cords

87

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 89

In peas, the gene for yellow color (C) is dominant to the gene for green color (c). To determine the genotype of an unknown yellow pea, what kind of pea should you cross with it?

A

Another unknown green pea

B

Any genotype

C

Homozygous dominant

D

Homozygous recessive (cc) or known heterozygous (Cc)

88

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 90

A pure breeding tall plant was crossed to dwarf plant. What would be probability of "Tt" genotype in F₂?

A

0.25

B

0.5

C

0.75

D

1

89

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 91

Inbreeding reduces the fitness of a population. This is the result of which increased genetic affect of inbreeding?

A

Rate of spontaneous mutation

B

Levels of aggression

C

Genetic diversity

D

Expression of deleterious recessive traits

90

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 92

Which of the following are the first group of invertebrates which have developed a closed circulatory system?

A

Nematodes

B

Arthropods

C

Annelids

D

Molluscs

91

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 93

The covalent bond between two monosaccharide subunits is called?

A

Phosphodiester bond

B

peptide bond

C

ionic bond

D

glycosidic bond

92

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 94

What is the final product of the krebs cycle?

A

malate

B

succinate

C

oxaloacetate

D

fumarate

93

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 95

Mantle in molluscs is present over which of the following regions?

A

head

B

dorsal muscular foot

C

dorsal visceral foot

D

both a and b

94

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 96

Lysosomes are known as "suicidal bags" because of?

A

parasitic activity

B

presence of food vacuoles

C

hydrolytic activity

D

catalytic activity

95

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 97

Which of the following is evidence of a common ancestor?

A

Morphological similarities

B

Fossil record

C

Vestigial characteristics

D

all of these

96

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 98

Sperms are produced in:

A

Urethra

B

Pancreas

C

sperm duct

D

testis

97

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 99

An activated enzyme consisting of polypeptide chain and a cofactor is called?

A

Apoenzyme

B

Holoenzyme

C

Activated enzyme

D

both b and c

98

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 100

The functional unit of contractile system in striated muscle is:

A

myofibril

B

cross bridges

C

Z band

D

sarcomere

99

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 101

Cryptorchidism is a condition where?

A

One of both testes are not developed

B

One or both testes are not formed

C

One or both testes fail to descend into the scrotum

D

none of these

100

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 102 In living organisms the lubricant which provides protection against damage resulting from friction is?

A water

B proteins

C lipids

D carbohydrates

101

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 103

What is formed at the end of the preparatory phase of glycolysis?

A

G3P

B

Dihydroxyacetone phosphate

C

pyruvate

D

both a and b

102

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 104

What is an example of an oviparous mammal?

A

Penguin

B

Shark

C

Spiny anteater

D

Elephant

103

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 105

Which statement correctly describes why enzyme activity increases with increased enzyme concentration?

- A Collisions between enzyme and substrate molecules increase because of increased kinetic energy.
- B Collisions between enzyme and substrate molecules increase because of increased heat energy.
- C Collisions between enzyme and substrate molecules increase because of more active sites are available.
- D Collisions between enzyme and substrate molecules increase because more substrate molecules are available.

104

SKIPPED QUESTIONS [Previous Question](#)[Next Question](#)

Q 106

In the intestine, the branches of lymph capillaries, within villi, are called:

A

lacteals

B

lymph

C

lymphatic vessels

D

lymph nodes

105

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 107

Which type of bond is not form in maintaining the tertiary structure of proteins?

A

ionic

B

hydrogen

C

disulphide

D

hydrophobic

106

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 108

Where does fertilization typically take place in the female?

A

uterus

B

ovaries

C

eggs

D

fallopian tube

107

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 109

The semi solid mass in stomach is known as:

A

bolus

B

chyme

C

serum

D

food

108

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 110

All of the following statements are true regarding the attachment or adsorption of the virion to the host cell EXCEPT that:

- A for naked virions, the surface capsid proteins are responsible for binding to a specific cell receptor.
- B for enveloped viruses, the spikes are responsible for binding to a specific cell receptor.
- C cell lacking a receptor for a specific virus is not infected by that virus.
- D All of the above

109

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 111 Which hormone is involved in opening and closing of stomata?

A citric acid

B Oxaloacetic acid

C abscisic acid

D None of these

110

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 112 The autonomic nervous system functions to

A act on external environment

B regulate the internal environment

C transmit motor information to brain

D none of these

111

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 113 What would you predict would happen to pancreatic enzymes if they were introduced to the stomach?

- A Their function would decrease due to increased pH
- B Their function would decrease due to decreased pH
- C Their function would increase due to decreased proton concentration
- D Their function would increase due to decreased pH

112

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 114

Chitinous Setae are the locomotory organs of annelids which are present on?

A

cell wall

B

prostomium

C

nucleolus

D

parapodia

113

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 115

Which of the following is not an evidence for evolution?

A

Fossil record

B

Common ancestor organisms

C

Vestigial structures

D

none of these

114

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 116

When a wheat grain has genotype AaBbcc, the genotype would be:

A

Light pink

B

Pink

C

Light red

D

Red

115

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 117

Fertilization of human egg occurs in:

A

ovary

B

uterus

C

oviduct (fallopian tube)

D

cervix

116

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 118

What is the property of the part of a cell membrane which is in contact with external and internal environment?

A hydrophobic

B hydrophilic

C neutral

D both a and b

117

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 119

Which of the following contains DNA?

A

slime

B

plasmid

C

ribosome

D

pili

118

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 120

Which is the correct order of energy transfer from accessory pigments to main photosynthetic pigment

A

Carotenoids, Chlorophyll a, Chlorophyll b.

B

Chlorophyll b, Carotenoids, Chlorophyll a.

C

Carotenoids, Chlorophyll b, Chlorophyll a.

D

Chlorophyll a, Chlorophyll b, Carotenoids.

119

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 121

The only promoter of leaf senescence in the following plant hormones is?

A

gibberellins

B

cytokinins

C

auxins

D

abscisic acid

120

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 122 HDL synthesized in ____

A Adipose tissue

B Liver

C intestine

D Liver and intestine

121

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 123

The joint formed by humerus with radius and ulna is an example of:

A

ball and socket joint

B

hinge joint

C

multistage joint

D

All of these

122

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 124

One similarity between annelids and arthropods:

A

Closed circulatory system.

B

Nitrogenous waste product is uric acid.

C

Ventral nerve cord.

D

None of the above.

123

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 125

The SI Unit for resistance is?

A

Ohm

B

Ampere

C

Watt

D

Volts

124

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 126

Which of the following are component of half wave rectifier

A

transformer

B

load resistance

C

power supply

D

All of the above

125

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 127

Force acting on a positive charge is always:....

A

in the direction opposite to electric field

B

in the direction of electric field

C

in the direction perpendicular to electric field

D

in the direction perpendicular to the velocity of charge

126

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 128

The value of Boltzmann's constant, k_B , is:

A

 $8.314 \text{ J/mol}\cdot\text{K}$

B

 $1.38 \times 10^{-23} \text{ J/K}$

C

 $6.63 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$

D

 $1.6 \times 10^{-19} \text{ C}$

127

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 129

The angular displacement is assigned positive sign when the rotation is

A

Clockwise

B

Anti-clockwise

C

perpendicular

D

parallel

128

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 130

If a charge of 2C is moving with 5m/s enter at 30 degree in 3 T, calculate the force experienced by it

A

10N

B

15N

C

20N

D

30N

129

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 131

The number of protons in the nucleus is called _____ number

A

atomic

B

charge

C

atomic or charge

D

neither atomic nor charge

130

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 132

A closed container contains an ideal gas. Which of the following changes will result in decrease in temperature?

A volume = decrease temperature = decrease

B volume = decrease temperature = increase

C volume = increase temperature = decrease

D volume = increase temperature = increase

131

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 133

The charge on electron is equal to

A

proton

B

two protons

C

two neutrons

D

none of these

132

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 134

Under the action of the restoring force:

A the speed of the body always increases

B the body moves at constant speed

C the body always slows down

D the body accelerates

133

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 135

Which light has more velocity

A

He-Ne laser

B

white

C

yellow

D

all are equal

134

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 136 An electrical instrument which is used to measure potential difference between two points is called

- A Barometer
- B Manometer
- C Galvanometer
- D Voltmeter

135

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 137

Non-inductive resistances are used in

A

ammeter

B

voltmeter

C

resistance boxes

D

all of these

136

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 138

SI unit of absorbed dose is

A

Gray

B

Roentgen

C

Curie

D

Rem

137

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 139

Many computer keyboard buttons are constructed using capacitors. When a key is pushed down, the soft insulator between the movable plate and the fixed plate is compressed. When the key is pressed, what happens to the capacitance?

- A it increases
- B it decreases
- C it remains same
- D it changes in a way you cannot determine because of the complex circuit

138

SKIPPED QUESTIONS [Previous Question](#)[Next Question](#)

Q 140

A monatomic gas is heated from temperature T_1 and T_2 under two different conditions at (i) constant Volume and (ii) constant pressure. So change in U is

A

More for (i)

B

More for (ii)

C

same for both

D

independent of number of moles

139

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 141

Gamma rays travel ____ distance

A

long

B

short

C

absorbed immediately

D

never ending distance

140

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 142

If two photons interact in same direction what will change

A

mass

B

energy

C

intensity

D

none of these

141

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 143

An ideal reversible heat engine has:

A

1 efficiency

B

Highest efficiency

C

an efficiency which depends on the nature of substance

D

none of these

142

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 144

The minimum indivisible unit of charge is:....

A

one coulomb

B

charge on one alpha particle

C

charge on one proton

D

one micro coulomb

143

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 145

Spectra corresponding to sodium vapour lamp is

A

band spectra

B

line spectra

C

emission spectra

D

absorption spectra

144

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 146

In adiabatic expansion

A

 $\Delta U=0$

B

 $\Delta U=$ negative

C

 $\Delta U=$ positive

D

 $\Delta W=0$

145

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 147

The anti particle of quark is_____

A

electrons

B

protons

C

neutrons

D

none of these

146

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 148

A stationary wave is set up in a pipe of length L . If the pipe is open at one end and closed at other, what is fifth harmonic frequency ? first harmonic frequency

A

4

B

6

C

 $1/5$

D

5

147

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 149

Coulomb per volt is called:...

A

Ampere

B

electron volt

C

Joule

D

Farad

148

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 150

A square coil of side length 2 mm is placed in the x-y plane and in uniform magnetic field 0.1 T. Find total flux through the coil

A

1.6 Wb

B

0.16 Wb

C

16 Wb

D

0 Wb

149

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 151

A car is moving in a circular track of radius 20m at a constant speed of 20m/sec. Find the centripetal acceleration?

A 20 m/s^2

B 40 m/s^2

C 30 m/s^2

D 10 m/s^2

150

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 152

If a rotating body is moving anti-clockwise, the direction of angular velocity is

A

towards the centre

B

along the linear velocity

C

away from the centre

D

perpendicular to both radius and linear velocity

151

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 153

The shortest distance between two points on the wave that have a phase difference of $(\pi/3)$ is 5 cm. What is its wavelength?

A 10 cm

B 20 cm

C 30 cm

D 40 cm

152

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 154

Maximum efficiency of half wave rectifier is

A

80.6 %

B

40.60%

C

70%

D

50%

153

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 155

Whenever the magnetic flux linked with an electric circuit changes, an emf is induced in the circuit. This is called

A electromagnetic induction

B kirchoff's law

C hysteresis loss

D Lenz's law

154

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 156

The clouds are formed when water ____ heat

A

absorb

B

release

C

first absorb than release

D

first release than absorb

155

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 157

Ohm's law is not applicable to

A

Semiconductors

B

D.C. circuits

C

Small resistors

D

High currents

156

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 158

Which of the following rectifier uses wheatstone bridge to rectify signal

A

half wave

B

full wave

C

bridge

D

All of the above

157

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 159

If the velocity varies linearly with time then acceleration is called

A

nonuniform

B

discrete

C

instantaneous

D

uniform

158

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 160

Electric generator converts _____ to _____ energy

A

electric, mechanical

B

mechanical , electric

C

mechanical , potential

D

not enough information

159

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 161

An element X with Z 14 and A 6 has how many neutrons

A

6

B

8

C

14

D

20

160

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 162

Work done by the centripetal force on a body moving in circle is zero because

A

the body moves parallel to F

B

the body move opposite to F

C

the body move right angle to F

D

centripetal and centrifugal balance each other

161

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 163

A man hold a bucket by applying force 10 N, then moves a horizontal distance of 5 m and vertical distance of 10 m, find out the net work done

A 100 J

B 150 J

C 50 J

D 200 J

162

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 164

Nucleus absorbs

A

x rays

B

beta rays

C

gamma rays

D

all of these

163

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 165

An object undergoes simple harmonic motion. Its amplitude is x_0 . The speed of the object is v when its displacement is $x_0/3$. What is the speed when its displacement is x_0 ?

A $v/3$ B $2v$ C $3/2 v$

D 0

164

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 166

Work is done by the applying force when

A

applied force is variable

B

applied force is perpendicular to the motion

C

applied force generated motion

D

applied force is constant

165

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 167

Which of the following can have negative temperature coefficient?

A

Compounds of silver

B

Liquid metals

C

Metallic alloys

D

Electrolytes

166

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 168

Which one of them is a type of emission

A

spontaneous

B

stimulated

C

both a) and b)

D

None of these

167

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 169

The length and radius of an electric resistance of a certain wire are doubled simultaneously, then the:

- A resistance will be doubled and specific resistance will be halved
- B resistance will be halved and specific resistance will remain unchanged
- C resistance will be halved and the specific resistance will be doubled
- D resistance and specific resistance will both remain unchanged

168

SKIPPED QUESTIONS [Previous Question](#)[Next Question](#) 

Q 170

One charge enters in magnetic field of 2×10^{-2} T normally with specific charge 10^8 C/kg and velocity of 10^7 m/s. What will be the radius of circle?

A 1 m

B 0.5 m

C 5 m

D 10 m

169

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 171

What is the energy of a photon in a beam of infrared radiation of wavelength 1240 nm? Give your answer in eV.

A

1

B

 6.25×10^{18}

C

 1.6×10^{-19}

D

 3.6×10^6

170

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 172 The energy input to an engine is 60 J, and the work it performs is 15 J. What is its thermal efficiency?

A 4.00

B 1.00

C 0.25

D impossible to determine

171

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 173

For a half-wave rectifier having diode voltage V_D and supply input of V , the diode conducts for $\pi - 2\theta$, where θ is given by

A

$$\tan^{-1}(V_D/V)$$

B

$$\sin^{-1}(V_D/V)$$

C

$$\cos^{-1}(V_D/V)$$

D

$$\cot^{-1}(V_D/V)$$

172

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 174

If two particles collide with one anti particle the resultant will give

A one particle, one anti particle

B total annihilation

C one antiparticle only

D none of these

173

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 175

Scattering is a process involving _____

A

reflection

B

refraction

C

diffraction

D

none of these

174

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 176

Time constant is defined as the time required by the capacitor:...

A

to deposit 63% of the equilibrium charge

B

to deposit 36% of the equilibrium charge

C

to deposit 63 times of the equilibrium charge

D

to deposit 36 times of the equilibrium charge

175

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 177

A uniform chain of mass M and length L is lying on a smooth table and a part of it is hanging from the table. The work required to pull the hanging part of the chain on to the table is . Find the part of the chain in terms of its length which is hanging from the table:

A $L/3$ B $L/4$ C $L/6$ D $L/2$

176

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 178 What is the power of a bulb if it is operated at 220V and the current in the circuit is 1.5 Amp

A 330 watt

B 430 watt

C 530 watt

D 500 watt

177

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 179

100 W heater is used to heat 500 g of water from 20°C to 50°C. How long should the heater be switched on? Specific heat capacity of water is 4.2 J/g°C.

A 63 sec

B 63 min

C 630 sec

D 6.3 min

178

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 180

If magnetic field is doubled then magnetic energy density becomes

A

four times

B

two times

C

three times

D

six times

179

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Comprehend key vocabulary

Q 181 Aslam and his friends were making too much noise. Their father got really _____ at them.

A afraid

B angry

C kind

D strong

180

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 182

Spring is _____. It will be warmer soon.

A

on the way

B

to be coming

C

eventually

D

prepared now

181

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 183

Choose the correct sentence.

A

i think june is the hottest month.

B

I think june is the hottest month.

C

I think June is the hottest month.

D

I think June is the hottest month.

182

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of subject-verb agreement

Q 184

According to the information on this page, items bought before 1940 _____ more than items made after that year.

A costs

B costed

C costing

D cost

183

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate control of tenses and sentence structure

Q 185 Maryam _____ (see) the smoke of the fire rising all around.

A see

B saw

C will see

D seen

184

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 186

When the dentist came in (A), my tooth was stopped aching (B)/ out of fear (C) that I might loose my tooth.
(D)

A

When the dentist came in

B

my tooth was stopped aching

C

out of fear

D

that i might loose my tooth.

185

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Demonstrate control of tenses and sentence structure

Q 187 God _____ those who help themselves.

A help

B helps

C has helped

D is helping

186

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Demonstrate control of tenses and sentence structure

Q 188 The buses sometimes _____ very late.

A arriving

B arrive

C arrives

D are arriving

187

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 189

Choose the correct sentence.

A

He always loved sweets, chocolates, biscuits and cakes.

B

He always loved, sweets, chocolates, biscuits and cakes.

C

He always loved sweets, chocolates, biscuits and, cakes.

D

He always loved sweets, chocolates biscuits and cakes.

188

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 190

Choose the correct spelling of the word

A

goas

B

gose

C

goes

D

gois

189

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of articles and prepositions

Q 191 This is _____ good company to work with.

A a

B an

C the

D no article

190

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Comprehend key vocabulary

Q 192

Asif tried to stop the car but the _____ did not work and he hit a pole.

A

brakes

B

crossroads

C

tires

D

controls

191

SKIPPED QUESTIONS  Previous QuestionNext Question 

Demonstrate correct use of articles and prepositions

Q 193

My friend has been living _____ Karachi for two years.

A

on

B

at

C

in

D

across

192

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 194

Choose the correct spelling of the word

A

discribe

B

describe

C

describe

D

diskribe

193

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate control of tenses and sentence structure

Q 195 Sara _____ (unlock) the door and _____ (go) into her apartment.

A unlocking... going

B unlocked... went

C unlocked... gone

D unlocks... is going

194

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Demonstrate correct use of subject-verb agreement

Q 196

The bus _____ by the morning.

A

left

B

leaves

C

will leave

D

will have left

195

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate control of tenses and sentence structure

Q 197

Find the error?

A

The staff at the university

B

library deserve recognition

C

for helping to locate

D

the many sources needed for the successful completion of my doctoral dissertation.

196

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 198

You can get (A)/ all the information (B) you want (C) from this book. (D)

A

You can get

B

all the information

C

you want

D

from this book.

197

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 199

Choose the correct sentence.

A

John asked, "when are we going on a vacation?"

B

John asked "When are we going on a vacation?"

C

John asked, when are we going on a vacation?

D

John asked, "When are we going on a vacation?"

198

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of articles and prepositions

Q 200 We have _____ small house in _____ village in _____ Netherlands.

A the... an... a

B an... a... the

C a... a... the

D a... an... the

199

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Dependent Causes/ Independent Causes/

Q 201

Statement: There is unprecedented increase in the number of young unemployed in comparison to the previous year. A large number of candidates submitted applications against an advertisement for the post of manager issued by a bank.

- A Statement I is the cause and statement II is its effect.
- B Statement II is the cause and statement I is its effect
- C Both the statements I and II are independent causes
- D Both the statements I and II are effects of independent causes

200

SKIPPED QUESTIONS [Previous Question](#)[Next Question](#)

Logical Games

Q 202

From the following, which one is an odd pair?

A

Petrol- Car

B

Oil - Lamp

C

Coal - Engine

D

Smoke_ Fire

201

SKIPPED QUESTIONS  Previous QuestionNext Question 

Statements and Actions

Q 203

Statement The ratio is poverty is at alarming point in our country. I. The Government needs to take step for economic and development growth. II. The lower class area of people in our country needs to be supported as most of them lives hand to mouth.

A Both of them follows

B None of them follows

C Only I follows

D Only b follows

202

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Verbal Classification

Q 204

Find the different one

A

Mother

B

Sister

C

Maid

D

Aunt

203

SKIPPED QUESTIONS  Previous QuestionNext Question 

Verbal Classification

Q 205 At what time between 4 and 5 o'clock will the hands of a watch point in opposite directions?

A $(54 + 6/11)$ past 4

B $(54 + 8/11)$ past 4

C $(53 + 7/11)$ past

D Both A and B

204

SKIPPED QUESTIONS [Previous Question](#)[Next Question](#)

Statement and Argument

Q 206

Statement Should children be prevented completely from watching television? Arguments (I) No. We get vital information regarding education through television. (II) Yes. It hampers the study of children. (III) Yes. Young children are misguided by certain programmes featuring violence

A Only I, II and III are strong

B Only I is strong

C Only I and II are strong

D Only I and II are strong

205

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Logical Games

Q 207

How many such pairs of letters are there in the word 'HISTORICAL' which have as many letters between them in the word as they have between them in the English alphabet?

A Four

B Seven

C Five

D eight

206

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Dependent Causes/ Independent Causes/

Q 208

Statement: Assessed the value of tea exports this year over all the earlier years due to an increase in demand for quality tea in the ket. There is an increase in demand of coffee in the domestic market during the last two years.

- A Statement I is the cause and statement II is its effect.
- B Statement II is the cause and statement I is its effect
- C Both the statements I and II are independent causes
- D Both the statements I and II are effects of independent causes

207

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Verbal Reasoning

Q 209

Which country has the most news channels?

A

Russia

B

India

C

Australia

D

Brazil

208

SKIPPED QUESTIONS  Previous QuestionNext Question 

Complete the series

Q 210

Complete the series A2.5, B5, C7.5, _____?

A

D9

B

D10

C

D9.5

D

D45

209

SKIPPED QUESTIONS  Previous Question

Submit

Q1

In the chest wall, the rib muscles are considered as

A

intercostal muscles

B

Pulmonary muscles

C

Both and A and B

D

Coastal muscles

[< Previous Question](#)[Next Question >](#)

Q2 During S_N1 mechanism, nucleophile can attack on the halogen carbon?

A From opposite side of leaving group

B From front of leaving group

C From both sides

D None of these

< Previous Question

Next Question >

Q3

In which of the following benzene is isolated?

A

Naphthalene

B

Diphenyl ethane

C

Phenanthrene

D

Anthracene

[< Previous Question](#)[Next Question >](#)

Q4

Structure of a Crystal is changed due to

A

Cooling

B

Heating

C

Impurity

D

None of these

[< Previous Question](#)[Next Question >](#)

Q5

The specific site at which substrate is attached on the enzyme and converted into product is called as___?

A

Reaction site

B

Active site

C

Binding site

D

None of these

< Previous Question

Next Question >

Q6 Which of the following test distinguish between 2-butanol and 1-butanol?

A Baeyer's test

B Lucas Test

C Benedict's test

D 2,4-DNPH test

< Previous Question

Next Question >

Q7 Which of the following is correct general formula of aliphatic carboxylic acid ?

A RCOOH

B ArCOOH

C PhCOOH

D None of these

< Previous Question

Next Question >

Q8

Nyholm & Gillespie explains the shapes of molecules for

A

transition elements

B

non transition elements

C

only alkali metals

D

Alkaline earth metals

[< Previous Question](#)[Next Question >](#)

Q9

S_N1 reaction is a _____?

A

Multistep reaction

B

Two step reaction

C

Concerted reaction

D

3 step reaction

< Previous Question

Next Question >

Q10 The conversion of Nitrogen to ammonia or nitrogenous compounds is called

A Nitrification

B Nitrogen Fixation

C Denitrification

D Assimilation

< Previous Question

Next Question >

Q11

The word Alkali means

A

Base

B

Basic salt

C

Ashes

D

Spirit

< Previous Question

Next Question >

Q12

Limiting reactant controls the amount of _

A

reactant

B

products

C

both A & B

D

none of these

< Previous Question

Next Question >

Q13

Which of the following forces have no relation with valence electrons?

A

Ionic Bond

B

Chemical bond

C

Intermolecular forces

D

Intramolecular forces

[< Previous Question](#)[Next Question >](#)

Q14

Molecules of ____ can collide among themselves and exchange energy

A

solids

B

liquids

C

gases

D

both B & C

[< Previous Question](#)[Next Question >](#)

Q15

As reaction starts instantaneous rate is

A

Higher than Average rate

B

Lower Than average rate

C

equal to average rate

D

None of these

[< Previous Question](#)[Next Question >](#)

Q16

Rate = $k [\text{NO}][\text{O}_3]$, the order of this reaction is

A

2

B

0

C

1

D

3

< Previous Question

Next Question >

Q17

Dalton's atomic theory couldn't explain the concept about

A

isomers

B

protons

C

isotopes

D

nucleus

[< Previous Question](#)[Next Question >](#)

Q18

Water is considered as a Universal solvent because of which properties?

A

Polar nature of water

B

H-bonding

C

Electronegativity difference

D

All are correct

[< Previous Question](#)[Next Question >](#)

Q19

A chemical reaction has reached a state of dynamic equilibrium at certain temperature, Which of the statement is incorrect

A

Concentration of the reactants remains constant

B

Products are continuously being formed

C

The rate of forward and backward reactions are same

D

The reaction has stopped completely

[< Previous Question](#)[Next Question >](#)

Q20 In chemical combination of H-atom with sodium. It gains an electron but in case of HF, H-atom

A gains 2 e-

B lose 1e-

C lose 2e-

D gain 2e-

< Previous Question

Next Question >

Q21

Evaporation is reverse of _____?

A

Sublimation

B

Freezing

C

Melting

D

Condensation

< Previous Question

Next Question >

Q22

Which of the following catalyst is used in Friedel craft reaction?

A

 ZnCl_2

B

 KMnO_4

C

 AlCl_3

D

 V_2O_5

< Previous Question

Next Question >

Q23

Nucleoprotein are_____ proteins which transfer heredity information from one generation to other.

A

Transport proteins

B

Structural proteins

C

Genetic proteins

D

Regulatory proteins

[< Previous Question](#)[Next Question >](#)

Q24

S_N1 reactions are favored by which of the following reactions?

A

Water

B

Benzene

C

Carbon Tetrachloride

D

Carbon disulphide

[< Previous Question](#)[Next Question >](#)

Q25 In a reaction having both alkyl halide and base, the base will attack on_____?

A Electrophilic carbon

B Nucleophilic carbon

C beta-hydrogen

D None of these

< Previous Question

Next Question >

Q26

Alkanes mostly give_____?

A

Addition reactions

B

Elimination reactions

C

Reduction reactions

D

Substitution reactions

< Previous Question

Next Question >

Q27

The formation of negative ion is a/an ____ process

A

exothermic

B

endothermic

C

both A & B

D

none of these

< Previous Question

Next Question >

Q28

What is the emf of Zn-Cu cell ?

A

1.01V

B

1.23V

C

1.1V

D

1.44V

< Previous Question

Next Question >

Q29

The value of Principal quantum number "n" represent

A

energy of electron

B

location of electron

C

shells or energy levels

D

all of these

[< Previous Question](#)[Next Question >](#)

Q30

Heat of combustion is always a_____?

A

Exothermic reaction

B

Endothermic reaction

C

Spontaneous reaction

D

nonspontaneous reaction

< Previous Question

Next Question >

Q31

First Law of thermodynamics is

A

$$\Delta E = \Delta H$$

B

$$\Delta E = q + p$$

C

$$\Delta E = q + w$$

D

$$\Delta E = -P\Delta V$$

< Previous Question

Next Question >

Q32

More energy to remove an electron from_____?

A

Half filled subshell

B

Completely Filled Subshell

C

Partially filled subshell

D

Both a and b

< Previous Question

Next Question >

Q33 The ionic radius is always _____ than the atomic radius from which it is derived

A higher

B larger

C moderate

D smaller

< Previous Question

Next Question >

Q34 80% of the coal is used in_____?

A lime kiln

B Domestic purposes

C Fuel

D Motor bikes

< Previous Question

Next Question >

Q35

Which of the following is produced by heating of bones?

A

Gelatine

B

Cheese

C

Albumin

D

Gelly

< Previous Question

Next Question >

Q36

The reactions of carboxylic acids which involve H atom removal of OH group form _____ as major products in all reactions?

A Esters

B Nitriles

C Ketones

D Salts

< Previous Question

Next Question >

Q37

Which forces makes the liquefaction of He possible?

A

London Dispersion forces

B

Debye forces

C

Dipole-dipole force

D

H-bonding

< Previous Question

Next Question >

Q38

What does thermodynamics means?

A

Study of change in state of the system

B

Study of energy changes during a process

C

Study of material content of a system

D

All of these

< Previous Question

Next Question >

Q39

A structural formula shows_____?

A

Arrangement of atoms in the compound

B

Arrangement of electrons in the compound

C

Arrangement of Orbitals that involved in bonding

D

Lewis structure of compounds

< Previous Question

Next Question >

Q40

When acetylene react with ammoniacal solution cuprous chloride which color of acetylide is formed ?

A

White

B

Red

C

Brown

D

Pink

< Previous Question

Next Question >

Q41 Lactoglobulin a simple protein is found in muscles as well as in _____ too.

A Fish

B Liver

C Brain

D Plants

< Previous Question

Next Question >

Q42

The molecule of water has structure

A

cubic

B

tetrahedral

C

trigonal

D

hexagonal system

[< Previous Question](#)[Next Question >](#)

Q43

Fruity smell of organic compounds is because of _____?

A

Alcohols

B

Carboxylic acid

C

Ester

D

Acidhalids

[< Previous Question](#)[Next Question >](#)

Q44

Fractions of Crude petroleum can be obtained by using_____?

A

Destructive distillation

B

Fractional distillation

C

Vacuum distillation

D

Distillation

[< Previous Question](#)[Next Question >](#)

Q45

What is the correct relation between ΔH and intermolecular forces ?

A

Higher ΔH weaker intermolecular forces

B

Higher ΔH , higher intermolecular forces

C

Lower ΔH , higher intermolecular forces

D

None of these

[< Previous Question](#)[Next Question >](#)

Q46

Carbon is

A

trivalent

B

Tetravalent

C

Monovalent

D

Pentavalent

< Previous Question

Next Question >

Q47

18g of water contains _____atoms of hydrogen

A

 6.022×10^{23}

B

 $3 \times 6.022 \times 10^{23}$

C

 $2 \times 6.022 \times 10^{23}$

D

 $4 \times 6.22 \times 10^{23}$

< Previous Question

Next Question >

Q48

Heat is the energy that flows across the

A

Surroundings

B

Boundaries of the system

C

only within the system

D

All of these

[< Previous Question](#)[Next Question >](#)

Q49

Ammonia can form only one H-bond because of presence of

A

3 free electron

B

one lone pair of electron

C

5 electron in outer shell

D

none of these

[< Previous Question](#)[Next Question >](#)

Q50 Which one of the following alkali metals forms only normal oxide when it reacts with O_2 ?

A Lithium

B Sodium

C Potassium

D Rubidium

< Previous Question

Next Question >

Q51

Which of the following is an example of Tertiary alcohols?

A

2 methyl-3-ethylpentane

B

3-ethyl-3-hexanol

C

2-methyl-4-hexanol

D

isopropyl alcohol

[< Previous Question](#)[Next Question >](#)

Q52

Drawing a graph between concentration change with time gives a

A

Straight line

B

parabola

C

Curve

D

Scattered graph

< Previous Question

Next Question >

Q53 Number of Electrons added on both sides of oxidation and reduction half reactions are balanced

A At the start of procedure

B Somewhere in the middle of balancing

C After Adding two Half reactions

D Before Adding two Half Reactions

< Previous Question

Next Question >

Q54

Which of the following statement is incorrect regarding germ theory of diseases postulated by Robert Koch?

A A specific organism can always be found in association with a given disease

B The organism can be isolated and grown in pure culture in the laboratories

C It is possible to recover the organism in pure culture from the experimentally infected animals.

D The pure culture cannot produce the disease when inoculated into susceptible animal

[< Previous Question](#)[Next Question >](#)

Q55

What are Autophagosomes?

A

Those lysosomes which eat parts of their own cells to generate energy.

B

Those lysosomes which eat old and worn out cellular organelles.

C

Lysosomes which help in extracellular digestion

D

both a and b

< Previous Question

Next Question >

Q56

Breathing rate in humans at rest is:

A

10 to 15 times per minute

B

10 to 20 times per minute

C

80 to 120 times per minute

D

15 to 20 times per minute

< Previous Question

Next Question >

Q57

Which one of the following surrounds the testicles?

A

Penis

B

Urethra

C

sperm duct

D

scrotum

[< Previous Question](#)[Next Question >](#)

Q58

The non substrate molecules that binds to the allosteric sites are called?

A

inhibitors

B

reactants

C

allosteric substrates

D

allosteric modulators

[< Previous Question](#)[Next Question >](#)

Q59

What percentage of glucose is normally found in human blood?

A

0.008

B

0.0008

C

0.018

D

0.08

[< Previous Question](#)[Next Question >](#)

Q60 Synaptic vesicles discharge which hormone at the neuromuscular junction?

A acetylcholine

B adrenaline

C estradiol

D testosterone

< Previous Question

Next Question >

Q61

The random change in allele frequencies is known as?

A

genetic drift

B

diversity

C

linkage

D

all of these

[< Previous Question](#)[Next Question >](#)

Q62

In bacteria name the colour of light which is responsible for photosynthesis?

A

Ultra-Violet

B

Blue

C

Red

D

None of the above

[< Previous Question](#)[Next Question >](#)

Q63

Who came up with the term "cell"?

A

Schwann

B

Schleiden

C

Robert Hooke

D

both a and b

< Previous Question

Next Question >

Q64

Gene is the molecular unit of which of the following?

A

DNA

B

RNA

C

heredity

D

genotype

[< Previous Question](#)[Next Question >](#)

Q65 The phage that is involved in the lysogenic cycle of a bacteriophage is known as?

A Lytic Phage

B Lysogenic phage

C Prophage

D Bacteriophage

< Previous Question

Next Question >

Q66

Urethra and vagina have ----openings to the exterior:

A

common

B

independent

C

Both A and B

D

None of these

[< Previous Question](#)[Next Question >](#)

Q67

All of the following are coelomates except which?

A

Deuterostomes

B

Hemichordates

C

Proterosomes

D

Aschelminthes

[< Previous Question](#)[Next Question >](#)

Q68

Germ theory of diseases was formulated by

A

Louis Pasteur

B

Robert Koch

C

Christain Gram

D

None of above

< Previous Question

Next Question >

Q69

What type of viruses are the HBV virus?

A

DNA Enveloped virus

B

RNA enveloped virus

C

DNA Virus

D

RNA naked virus

< Previous Question

Next Question >

Q70

Which of the following can not be used to mediate the fusion of plasma membranes of two different cells?

A

electric shock

B

inactivated viruses

C

polyethylene glycol

D

emulsifier

[< Previous Question](#)[Next Question >](#)

Q71 The contraction of muscle by actin and myosin is described by which biological theory?

A Endosymbiotic theory

B Central Dogma theory

C Cross-bridge theory

D Sliding filament theory

< Previous Question

Next Question >

Q73

In the human body, the group formed by neurons enclosed in the membrane at certain body parts is called?

A benign

B malign

C ganglion

D neuroglial

< Previous Question

Next Question >

Q74 The difference in photosynthesis spectrum and actin spectrum occurs due to?

A Carbon dioxide

B oxygen

C carotenoids

D wavelength

< Previous Question

Next Question >

Q75

What is the definition of "fitness" in terms of evolution?

A

The organism's ability to attain resources while in competition with other organisms of its species

B

The organism's ability to attract the most mates

C

The organism's health

D

The ability of an organism to contribute its genes to future generations

[< Previous Question](#)[Next Question >](#)

Q76

E.coli is an example of which type of bacteria?

A

anaerobic

B

facultative

C

aerobic

D

both a and b

[< Previous Question](#)[Next Question >](#)

Q77

The smallest monosaccharide is

A

triose

B

diose

C

monose

D

none of these

[< Previous Question](#)[Next Question >](#)

Q78

The genes which do not follow law of independent assortment?

A

Recessive genes

B

Dominant genes

C

crossed genes

D

linked genes

[< Previous Question](#)[Next Question >](#)

Q79

The sperm duct opens into which of the following?

A

ureter

B

urethra

C

testes

D

all of these

[< Previous Question](#)[Next Question >](#)

Q80

The epiglottis, a flap of tissues covers the

A

pharynx

B

larynx

C

glottis

D

nasal cavity

[< Previous Question](#)[Next Question >](#)

Q81

A complex cartilaginous structure surrounding the upper end of the trachea is called:

A

glottis

B

voice box

C

epiglottis

D

vocal cords

[< Previous Question](#)[Next Question >](#)

Q82

In peas, the gene for yellow color (C) is dominant to the gene for green color (c). To determine the genotype of an unknown yellow pea, what kind of pea should you cross with it?

A

Another unknown green pea

B

Any genotype

C

Homozygous dominant

D

Homozygous recessive (cc) or known heterozygous (Cc)

[< Previous Question](#)[Next Question >](#)

Q83

A pure breeding tall plant was crossed to dwarf plant. What would be probability of "Tt" genotype in F₂?

A

0.25

B

0.5

C

0.75

D

1

< Previous Question

Next Question >

Q84

Which of the following are the first group of invertebrates which have developed a closed circulatory system?

A

Nematodes

B

Arthropods

C

Annelids

D

Molluscs

< Previous Question

Next Question >

Q85

The covalent bond between two monosaccharide subunits is called?

A

Phosphodiester bond

B

peptide bond

C

ionic bond

D

glycosidic bond

[< Previous Question](#)[Next Question >](#)

Q86

What is the final product of the krebs cycle?

A

malate

B

succinate

C

oxaloacetate

D

fumarate

[< Previous Question](#)[Next Question >](#)

Q87

Mantle in molluscs is present over which of the following regions?

A

head

B

dorsal muscular foot

C

dorsal visceral foot

D

both a and b

[< Previous Question](#)[Next Question >](#)

Q88

Lysosomes are known as "suicidal bags" because of?

A

parasitic activity

B

presence of food vacuoles

C

hydrolytic activity

D

catalytic activity

[< Previous Question](#)[Next Question >](#)

Q89

Which of the following is evidence of a common ancestor?

A

Morphological similarities

B

Fossil record

C

Vestigial characteristics

D

all of these

[< Previous Question](#)[Next Question >](#)

Q90

Sperms are produced in:

A

Urethra

B

Pancreas

C

sperm duct

D

testis

< Previous Question

Next Question >

Q91 An activated enzyme consisting of polypeptide chain and a cofactor is called?

A Apoenzyme

B Holoenzyme

C Activated enzyme

D both b and c

< Previous Question

Next Question >

Q92

Cryptorchidism is a condition where?

A

One of both testes are not developed

B

One or both testes are not formed

C

One or both testes fail to descend into the scrotum

D

none of these

< Previous Question

Next Question >

Q93

In living organisms the lubricant which provides protection against damage resulting from friction is?

A

water

B

proteins

C

lipids

D

carbohydrates

[< Previous Question](#)[Next Question >](#)

Q94

What is formed at the end of the preparatory phase of glycolysis?

A

G3P

B

Dihydroxyacetone phosphate

C

pyruvate

D

both a and b

[< Previous Question](#)[Next Question >](#)

Q95

What is an example of an oviparous mammal?

A

Penguin

B

Shark

C

Spiny anteater

D

Elephant

[< Previous Question](#)[Next Question >](#)

Q96

Which statement correctly describes why enzyme activity increases with increased enzyme concentration?

A

Collisions between enzyme and substrate molecules increase because of increased kinetic energy.

B

Collisions between enzyme and substrate molecules increase because of increased heat energy.

C

Collisions between enzyme and substrate molecules increase because of more active sites are available.

D

Collisions between enzyme and substrate molecules increase because more substrate molecules are available.

[< Previous Question](#)[Next Question >](#)

Q97 Which type of bond is not form in maintaining the tertiary structure of proteins?

A ionic

B hydrogen

C disulphide

D hydrophobic

< Previous Question

Next Question >

Q98

Where does fertilization typically take place in the female?

A

uterus

B

ovaries

C

eggs

D

fallopian tube

[< Previous Question](#)[Next Question >](#)

Q99

The semi solid mass in stomach is known as:

A

bolus

B

chyme

C

serum

D

food

[< Previous Question](#)[Next Question >](#)

Q100

All of the following statements are true regarding the attachment or adsorption of the virion to the host cell EXCEPT that:

A for naked virions, the surface capsid proteins are responsible for binding to a specific cell receptor.

B for enveloped viruses, the spikes are responsible for binding to a specific cell receptor.

C cell lacking a receptor for a specific virus is not infected by that virus.

D All of the above

[< Previous Question](#)[Next Question >](#)

Q101

Which hormone is involved in opening and closing of stomata?

A

citric acid

B

Oxaloacetic acid

C

abscisic acid

D

None of these

[< Previous Question](#)[Next Question >](#)

Q102

The autonomic nervous system functions to

A

act on external environment

B

regulate the internal environment

C

transmit motor information to brain

D

none of these

[< Previous Question](#)[Next Question >](#)

Q103

Chitinous Setae are the locomotory organs of annelids which are present on?

A

cell wall

B

prostomium

C

nucleolus

D

parapodia

[< Previous Question](#)[Next Question >](#)

Q104

Which of the following is not an evidence for evolution?

A

Fossil record

B

Common ancestor organisms

C

Vestigial structures

D

none of these

[< Previous Question](#)[Next Question >](#)

Q105

When a wheat grain has genotype AaBbcc, the genotype would be:

A

Light pink

B

Pink

C

Light red

D

Red

< Previous Question

Next Question >

Q106

Fertilization of human egg occurs in:

A

ovary

B

uterus

C

oviduct (fallopian tube)

D

cervix

< Previous Question

Next Question >

Q107

What is the property of the part of a cell membrane which is in contact with external and internal environment?

A hydrophobic

B hydrophilic

C neutral

D both a and b

< Previous Question

Next Question >

Q108

Which of the following contains DNA?

A

slime

B

plasmid

C

ribosome

D

pili

< Previous Question

Next Question >

Q109

Which is the correct order of energy transfer from accessory pigments to main photosynthetic pigment

A

Carotenoids, Chlorophyll a, Chlorophyll b.

B

Chlorophyll b, Carotenoids, Chlorophyll a.

C

Carotenoids, Chlorophyll b, Chlorophyll a.

D

Chlorophyll a, Chlorophyll b, Carotenoids.

[< Previous Question](#)[Next Question >](#)

Q110 HDL synthesized in ____

A Adipose tissue

B Liver

C intestine

D Liver and intestine

< Previous Question

Next Question >

Q111

The joint formed by humerus with radius and ulna is an example of:

A

ball and socket joint

B

hinge joint

C

multistage joint

D

All of these

[< Previous Question](#)[Next Question >](#)

Q112

One similarity between annelids and arthropods:

A

Closed circulatory system.

B

Nitrogenous waste product is uric acid.

C

Ventral nerve cord.

D

None of the above.

[< Previous Question](#)[Next Question >](#)

Q113

The SI Unit for resistance is?

A

Ohm

B

Ampere

C

Watt

D

Volts

< Previous Question

Next Question >

Q114 Which of the following are component of half wave rectifier

A transformer

B load resistance

C power supply

D All of the above

< Previous Question

Next Question >

Q114 Which of the following are component of half wave rectifier

A transformer

B load resistance

C power supply

D All of the above

< Previous Question

Next Question >

Q115

Force acting on a positive charge is always:....

A

in the direction opposite to electric field

B

in the direction of electric field

C

in the direction perpendicular to electric field

D

in the direction perpendicular to the velocity of charge

[< Previous Question](#)[Next Question >](#)

Q116

The value of Boltzmann's constant, k_B , is:

A

 $8.314 \text{ J/mol}^\circ\text{K}$

B

 $1.38 \times 10^{-23} \text{ J/K}$

C

 $6.63 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$

D

 $1.6 \times 10^{-19} \text{ C}$

< Previous Question

Next Question >

Q117

If a charge of 2C is moving with 5m/s enter at 30 degree in 3 T, calculate the force experienced by it

A

10N

B

15N

C

20N

D

30N

[< Previous Question](#)[Next Question >](#)

Q118

The number of protons in the nucleus is called _____ number

A

atomic

B

charge

C

atomic or charge

D

neither atomic nor charge

[< Previous Question](#)[Next Question >](#)

Q119

A closed container contains an ideal gas. Which of the following changes will result in decrease in temperature?

A

volume = decrease temperature = decrease

B

volume = decrease temperature = increase

C

volume = increase temperature = decrease

D

volume = increase temperature = increase

[< Previous Question](#)[Next Question >](#)

Q120

The charge on electron is equal to

A

proton

B

two protons

C

two neutrons

D

none of these

[< Previous Question](#)[Next Question >](#)

Q121

Under the action of the restoring force:

A

the speed of the body always increases

B

the body moves at constant speed

C

the body always slows down

D

the body accelerates

[< Previous Question](#)[Next Question >](#)

Q122

Which light has more velocity

A

He-Ne laser

B

white

C

yellow

D

all are equal

< Previous Question

Next Question >

Q123

An electrical instrument which is used to measure potential difference between two points is called

A

Barometer

B

Manometer

C

Galvanometer

D

Voltmeter

[< Previous Question](#)[Next Question >](#)

Q124

Non-inductive resistances are used in

A

ammeter

B

voltmeter

C

resistance boxes

D

all of these

< Previous Question

Next Question >

Q125

Many computer keyboard buttons are constructed using capacitors. When a key is pushed down, the soft insulator between the movable plate and the fixed plate is compressed. When the key is pressed, what happens to the capacitance?

A

it increases

B

it decreases

C

it remains same

D

it changes in a way you cannot determine because of the complex circuit

< Previous Question

Next Question >

Q126

A monatomic gas is heated from temperature T_1 and T_2 under two different conditions at (i) constant Volume and (ii) constant pressure. So change in U is

A

More for (i)

B

More for (ii)

C

same for both

D

independent of number of moles

< Previous Question

Next Question >

Q127

Gamma rays travel ____ distance

A

long

B

short

C

absorbed immediately

D

never ending distance

< Previous Question

Next Question >

Q128

If two photons interact in same direction what will change

A

mass

B

energy

C

intensity

D

none of these

[< Previous Question](#)[Next Question >](#)

Q129

An ideal reversible heat engine has:

A

1 efficiency

B

Highest efficiency

C

an efficiency which depends on the nature of substance

D

none of these

[< Previous Question](#)[Next Question >](#)

Q130

The minimum indivisible unit of charge is:....

A

one coulomb

B

charge on one alpha particle

C

charge on one proton

D

one micro coulomb

[< Previous Question](#)[Next Question >](#)

Q131

Spectra corresponding to sodium vapour lamp is

A

band spectra

B

line spectra

C

emission spectra

D

absorption spectra

[< Previous Question](#)[Next Question >](#)

Q132

The anti particle of quark is_____

A

electrons

B

protons

C

neutrons

D

none of these

< Previous Question

Next Question >

Q133

A stationary wave is set up in a pipe of length L . If the pipe is open at one end and closed at other, what is fifth harmonic frequency ? first harmonic frequency

A 4

B 6

C $1/5$

D 5

< Previous Question

Next Question >

Q134

Coulomb per volt is called:...

A

Ampere

B

electron volt

C

Joule

D

Farad

< Previous Question

Next Question >

Q135

A square coil of side length 2 mm is placed in the x-y plane and in uniform magnetic field 0.1 T. Find total flux through the coil

A 1.6 Wb

B 0.16 Wb

C 16 Wb

D 0 Wb

[< Previous Question](#)[Next Question >](#)

Q136

A car is moving in a circular track of radius 20m at a constant speed of 20m/sec. Find the centripetal acceleration?

A

 20 m/s^2

B

 40 m/s^2

C

 30 m/s^2

D

 10 m/s^2

< Previous Question

Next Question >

Q137

If a rotating body is moving anti-clockwise, the direction of angular velocity is

A

towards the centre

B

along the linear velocity

C

away from the centre

D

perpendicular to both radius and linear velocity

[< Previous Question](#)[Next Question >](#)

Q138

The shortest distance between two points on the wave that have a phase difference of $(\pi/3)$ is 5 cm. What is its wavelength?

A 10 cm

B 20 cm

C 30 cm

D 40 cm

< Previous Question

Next Question >

Q139

Whenever the magnetic flux linked with an electric circuit changes, an emf is induced in the circuit. This is called

A

electromagnetic induction

B

kirchoff's law

C

hysteresis loss

D

Lenz's law

[< Previous Question](#)[Next Question >](#)

Q140

The clouds are formed when water ____ heat

A

absorb

B

release

C

first absorb than release

D

first release than absorb

[< Previous Question](#)[Next Question >](#)

Q141 Ohm's law is not applicable to

A Semiconductors

B D.C. circuits

C Small resistors

D High currents

< Previous Question

Next Question >

Q142

Which of the following rectifier uses wheatstone bridge to rectify signal

A

half wave

B

full wave

C

bridge

D

All of the above

[< Previous Question](#)[Next Question >](#)

Q143 If the velocity varies linearly with time then acceleration is called

A nonuniform

B discrete

C instantaneous

D uniform

< Previous Question

Next Question >

Q144

Electric generator converts _____ to _____ energy

A

electric, mechanical

B

mechanical , electric

C

mechanical , potential

D

not enough information

[< Previous Question](#)[Next Question >](#)

Q145

An element X with Z 14 and A 6 has how many neutrons

A

6

B

8

C

14

D

20

< Previous Question

Next Question >

Q146

Work done by the centripetal force on a body moving in circle is zero because

A

the body moves parallel to F

B

the body move opposite to F

C

the body move right angle to F

D

centripetal and centrifugal balance each other

[< Previous Question](#)[Next Question >](#)

Q147

Nucleus absorbs

A

x rays

B

beta rays

C

gamma rays

D

all of these

< Previous Question

Next Question >

Q148

An object undergoes simple harmonic motion. Its amplitude is x_0 . The speed of the object is v when its displacement is $x_0/3$. What is the speed when its displacement is x_0 ?

A $v/3$ B $2v$ C $3/2 v$

D 0

< Previous Question

Next Question >

Q149

Work is done by the applying force when

A

applied force is variable

B

applied force is perpendicular to the motion

C

applied force generated motion

D

applied force is constant

[< Previous Question](#)[Next Question >](#)

Q150

Which of the following can have negative temperature coefficient?

A

Compounds of silver

B

Liquid metals

C

Metallic alloys

D

Electrolytes

[< Previous Question](#)[Next Question >](#)

Q151

Which one of them is a type of emission

A

spontaneous

B

stimulated

C

both a) and b)

D

None of these

[< Previous Question](#)[Next Question >](#)

Q152

The length and radius of an electric resistance of a certain wire are doubled simultaneously, then the:

A resistance will be doubled and specific resistance will be halved

B resistance will be halved and specific resistance will remain unchanged

C resistance will be halved and the specific resistance will be doubled

D resistance and specific resistance will both remain unchanged

[< Previous Question](#)[Next Question >](#)

Q153

One charge enters in magnetic field of 2×10^{-2} T normally with specific charge 10^8 C/kg and velocity of 10^7 m/s. What will be the radius of circle?

A 1 m

B 0.5 m

C 5 m

D 10 m

[< Previous Question](#)[Next Question >](#)

Q154 The energy input to an engine is 60 J, and the work it performs is 15 J. What is its thermal efficiency?

A 4.00

B 1.00

C 0.25

D impossible to determine

< Previous Question

Next Question >

Q155

For a half-wave rectifier having diode voltage V_D and supply input of V , the diode conducts for $\pi - 2\theta$, where θ is given by

A $\tan^{-1}(V_D/V)$

B $\sin^{-1}(V_D/V)$

C $\cos^{-1}(V_D/V)$

D $\cot^{-1}(V_D/V)$

[< Previous Question](#)[Next Question >](#)

Q156

Scattering is a process involving _____

A

reflection

B

refraction

C

diffraction

D

none of these

< Previous Question

Next Question >

Q157

Time constant is defined as the time required by the capacitor:...

A

to deposit 63% of the equilibrium charge

B

to deposit 36% of the equilibrium charge

C

to deposit 63 times of the equilibrium charge

D

to deposit 36 times of the equilibrium charge

[< Previous Question](#)[Next Question >](#)

Q158

A uniform chain of mass M and length L is lying on a smooth table and a part of it is hanging from the table. The work required to pull the hanging part of the chain on to the table is . Find the part of the chain in terms of its length which is hanging from the table:

A $L/3$ B $L/4$ C $L/6$ D $L/2$

< Previous Question

Next Question >

Q159 What is the power of a bulb if it is operated at 220V and the current in the circuit is 1.5 Amp

A 330 watt

B 430 watt

C 530 watt

D 500 watt

< Previous Question

Next Question >

Q160

100 W heater is used to heat 500 g of water from 20°C to 50°C. How long should the heater be switched on? Specific heat capacity of water is 4.2 J/g°C.

A 63 sec

B 63 min

C 630 sec

D 6.3 min

[< Previous Question](#)[Next Question >](#)

Q161

If magnetic field is doubled then magnetic energy density becomes

A

four times

B

two times

C

three times

D

six times

[< Previous Question](#)[Next Question >](#)

Q162 Aslam and his friends were making too much noise. Their father got really _____ at them.

A afraid

B angry

C kind

D strong

< Previous Question

Next Question >

Q163

Spring is _____. It will be warmer soon.

A

on the way

B

to be coming

C

eventually

D

prepared now

[< Previous Question](#)[Next Question >](#)

Q164

Choose the correct sentence.

A

i think june is the hottest month.

B

I think june is the hottest month.

C

I think June is the hottest month.

D

I think June is the hottest month.

< Previous Question

Next Question >

Q165

According to the information on this page, items bought before 1940 _____ more than items made after that year.

A costs

B costed

C costing

D cost

[< Previous Question](#)[Next Question >](#)

Q166 Maryam _____ (see) the smoke of the fire rising all around.

A see

B saw

C will see

D seen

< Previous Question

Next Question >

Q167

When the dentist came in (A), my tooth was stopped aching (B)/ out of fear (C) that I might loose my tooth. (D)

A

When the dentist came in

B

my tooth was stopped aching

C

out of fear

D

that i might loose my tooth.

[< Previous Question](#)[Next Question >](#)

Q168

God _____ those who help themselves.

A

help

B

helps

C

has helped

D

is helping

< Previous Question

Next Question >

Q169

Choose the correct sentence.

A

He always loved sweets, chocolates, biscuits and cakes.

B

He always loved, sweets, chocolates, biscuits and cakes.

C

He always loved sweets, chocolates, biscuits and, cakes.

D

He always loved sweets, chocolates biscuits and cakes.

< Previous Question

Next Question >

Q170

Choose the correct spelling of the word

A

goas

B

gose

C

goes

D

gois

< Previous Question

Next Question >

Q171

This is _____ good company to work with.

A

a

B

an

C

the

D

no article

< Previous Question

Next Question >

Q172

Asif tried to stop the car but the _____ did not work and he hit a pole.

A

brakes

B

crossroads

C

tires

D

controls

[< Previous Question](#)[Next Question >](#)

Q173

My friend has been living _____ Karachi for two years.

A

on

B

at

C

in

D

across

[< Previous Question](#)[Next Question >](#)

Q174

Choose the correct spelling of the word

A

discribe

B

deskribe

C

describe

D

diskribe

< Previous Question

Next Question >

Q175

Sara _____ (unlock) the door and _____ (go) into her apartment.

A

unlocking... going

B

unlocked... went

C

unlocked... gone

D

unlocks... is going

[< Previous Question](#)[Next Question >](#)

Q176 The bus _____ by the morning.

A left

B leaves

C will leave

D will have left

< Previous Question

Next Question >

Q177

Find the error?

A

The staff at the university

B

library deserve recognition

C

for helping to locate

D

the many sources needed for the successful completion of my doctoral dissertation.

< Previous Question

Next Question >

Q178

You can get (A)/ all the information (B) you want (C) from this book. (D)

A

You can get

B

all the information

C

you want

D

from this book.

[< Previous Question](#)[Next Question >](#)

Q179

Choose the correct sentence.

A

John asked, "when are we going on a vacation?"

B

John asked "When are we going on a vacation?"

C

John asked, when are we going on a vacation?

D

John asked, "When are we going on a vacation?"

< Previous Question

Next Question >

Q180

We have _____ small house in _____ village in _____ Netherlands.

A

the... an... a

B

an... a... the

C

a... a... the

D

a... an... the

[< Previous Question](#)[Next Question >](#)

Q181

Statement: There is unprecedented increase in the number of young unemployed in comparison to the previous year. A large number of candidates submitted applications against an advertisement for the post of manager issued by a bank.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect

C

Both the statements I and II are independent causes

D

Both the statements I and II are effects of independent causes

[< Previous Question](#)[Next Question >](#)

Q182

Statement The ratio is poverty is at alarming point in our country. I. The Government needs to take step for economic and development growth. II. The lower class area of people in our country needs to be supported as most of them lives hand to mouth.

A

Both of them follows

B

None of them follows

C

Only I follows

D

Only b follows

< Previous Question

Next Question >

Q183

Find the different one

A

Mother

B

Sister

C

Maid

D

Aunt

< Previous Question

Next Question >

Q184 At what time between 4 and 5 o'clock will the hands of a watch point in opposite directions?

A $(54 + 6/11)$ past 4

B $(54 + 8/11)$ past 4

C $(53 + 7/11)$ past

D Both A and B

< Previous Question

Next Question >

Q185

Statement Should children be prevented completely from watching television? Arguments (I) No. We get vital information regarding education through television. (II) Yes. It hampers the study of children. (III) Yes. Young children are misguided by certain programmes featuring violence

A Only I, II and III are strong

B Only I is strong

C Only I and II are strong

D Only I and II are strong

[< Previous Question](#)[Next Question >](#)

Q186

How many such pairs of letters are there in the word 'HISTORICAL' which have as many letters between them in the word as they have between them in the English alphabet?

A Four

B Seven

C Five

D eight

[< Previous Question](#)[Next Question >](#)

Q187

Statement: Assessed the value of tea exports this year over all the earlier years due to an increase in demand for quality tea in the ket. There is an increase in demand of coffee in the domestic market during the last two years.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect

C

Both the statements I and II are independent causes

D

Both the statements I and II are effects of independent causes

[< Previous Question](#)[Next Question >](#)

Q188

Which country has the most news channels?

A

Russia

B

India

C

Australia

D

Brazil

< Previous Question

Next Question >

Q189

Which of the following suffix is used for the common naming of alkene?

A

-ene

B

-ylene

C

-yne

D

-eylene

< Previous Question

Next Question >

Q190

Outbreeding increases which of the following?

A

homozygosity

B

heterozygosity

C

gene linkage

D

gene pool

[< Previous Question](#)[Next Question >](#)

Q191

The buses sometimes _____ very late.

A

arriving

B

arrive

C

arrives

D

are arriving

[< Previous Question](#)[Next Question >](#)

Q192

Greater the mass of gas taken, greater will be slope of straight line. Because greater the _____ greater will be volume occupied

A

pressure

B

temperature

C

number of moles

D

all of these

< Previous Question

Next Question >

Q193

Molecular Solids are held together by weak intermolecular forces called

A

Van der Waal forces

B

Dipole Dipole Interaction

C

Both A and B

D

Electrostatic Forces

[< Previous Question](#)[Next Question >](#)

Q194

Hydrolysis of Tertiary Butyl bromide is a

A

First order reaction

B

Zero Order Reaction

C

Pseudo Second Order

D

Pseudo First Order

< Previous Question

Next Question >

Q195

Coelom is lined by which of the following?

A

Parietal mesoderm

B

Visceral mesoderm

C

Mesoderm

D

both a and b

< Previous Question

Next Question >

Q196

Which scientists gave postulate that giraffes have long necks because they wanted to eat the leaves of tall trees?

A

Watson and Crick

B

Lamarck

C

Darwin

D

All of these

[< Previous Question](#)[Next Question >](#)

Q197

The only promoter of leaf senescence in the following plant hormones is?

A

gibberellins

B

cytokinins

C

auxins

D

abscisic acid

[< Previous Question](#)[Next Question >](#)

Q198

In adiabatic expansion

A

 $\Delta U=0$

B

 $\Delta U=$ negative

C

 $\Delta U=$ positive

D

 $\Delta W=0$

< Previous Question

Next Question >

Q199

In the intestine, the branches of lymph capillaries, within villi, are called:

A

lacteals

B

lymph

C

lymphatic vessels

D

lymph nodes

[< Previous Question](#)[Next Question >](#)

Q200

Inbreeding reduces the fitness of a population. This is the result of which increased genetic affect of inbreeding?

A

Rate of spontaneous mutation

B

Levels of aggression

C

Genetic diversity

D

Expression of deleterious recessive traits

[< Previous Question](#)[Next Question >](#)

Q201

Complete the series A2.5, B5, C7.5, _____?

A

D9

B

D10

C

D9.5

D

D45

< Previous Question

Next Question >

Q202

The functional unit of contractile system in striated muscle is:

A

myofibril

B

cross bridges

C

Z band

D

sarcomere

[< Previous Question](#)[Next Question >](#)

Q203

What would you predict would happen to pancreatic enzymes if they were introduced to the stomach?

A

Their function would decrease due to increased pH

B

Their function would decrease due to decreased pH

C

Their function would increase due to decreased proton concentration

D

Their function would increase due to decreased pH

[< Previous Question](#)[Next Question >](#)

Q204

The angular displacement is assigned positive sign when the rotation is

A

Clockwise

B

Anti-clockwise

C

perpendicular

D

parallel

[< Previous Question](#)[Next Question >](#)

Q205

SI unit of absorbed dose is

A

Gray

B

Roentgen

C

Curie

D

Rem

< Previous Question

Next Question >

Q206

What is the energy of a photon in a beam of infrared radiation of wavelength 1240 nm? Give your answer in eV.

A

1

B

 6.25×10^{18}

C

 1.6×10^{-19}

D

 3.6×10^6

< Previous Question

Next Question >

Q207

If two particles collide with one anti particle the resultant will give

A

one particle, one anti particle

B

total annihilation

C

one antiparticle only

D

none of these

[< Previous Question](#)[Next Question >](#)

Q208

A man hold a bucket by applying force 10 N, then moves a horizontal distance of 5 m and vertical distance of 10 m, find out the net work done

A 100 J

B 150 J

C 50 J

D 200 J

[< Previous Question](#)[Next Question >](#)

Q209

Maximum efficiency of half wave rectifier is

A

80.6 %

B

40.60%

C

70%

D

50%

< Previous Question

Next Question >

Q210

From the following, which one is an odd pair?

A

Petrol- Car

B

Oil - Lamp

C

Coal - Engine

D

Smoke_ Fire

[< Previous Question](#)[Next Question >](#)